WHAT IS CLAIMED IS:

An air conditioner for an automotive vehicle having a passenger compartment, said air conditioner comprising:

a case forming an air passage through which air is blown into the passenger compartment, said case having a first opening for blowing air toward an upper side of the passenger compartment, a second opening for blowing air toward a lower side of the passenger compartment, and a third opening for blowing air toward a windshield of the vehicle;

a blower for blowing air in said case into the passenger compartment;

a cooling heat exchanger for cooling air passing therethrough, said cooling heat exchanger being disposed within said case approximately horizontally at a center of an instrument panel of the vehicle in a width direction of the vehicle in such a manner that air blown from said blower is introduced into said cooling heat exchanger from below upwardly;

a heating heat exchanger for heating air from said cooling heat exchanger, said heating heat exchanger being disposed approximately horizontally at an upper side of said cooling heat exchanger in such a manner that air upwardly passes through said heating heat exchanger; and

a mode switching member disposed at an upper side of said heating heat exchanger, for selectively opening and closing said first opening, said second opening and said third opening;

wherein said blower is disposed to be shifted from said cooling heat exchanger in the width direction.

Q. An air conditioner according to claim 1, wherein:

said blower blows air toward a lower side of said cooling heat exchanger in an airblowing direction;

said cooling heat exchanger is inclined downwardly toward a forward side of said airblowing direction;

said cooling heat exchanger has a plurality of tubes through which refrigerant flows;

said tubes extend in a direction approximately equal to said air-blowing direction.

- 3. An air conditioner according to claim 2, wherein said cooling heat exchanger is inclined relative to a horizontal surface by an inclination angle, said inclination angle being in a range of 10° 30°,
 - 4. An air conditioner according to claim 1, wherein:

said case has a drain port for draining condensed water from said cooling heat exchanger to an outside of said case; and

said drain port is provided at a most bottom portion of said case at a lower side of said cooling heat exchanger.

5. An air conditioner according to claim 4, wherein:

said blower blows air toward a lower side of said cooling heat exchanger in an airblowing direction;

said cooling heat exchanger is inclined downwardly toward a forward side of said airblowing direction; and ا ل

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said drain port is provided in said case at a lower position of a forward end of said cooling heat exchanger in said air-blowing direction.

6. An air conditioner for an automotive vehicle having a passenger compartment, said air conditioner comprising:

a case forming an air passage through which air is blown into the passenger compartment;

a blower for blowing air in said case into the passenger compartment;

a cooling heat exchanger for cooling air blown from said blower, said cooling heat exchanger being slightly inclined relative to a horizontal surface by an inclination angle;

a heating heat exchanger for heating air from said cooling heat exchanger so that temperature of air to be blown into the passenger compartment is conditioned, said heating heat exchanger being disposed approximately horizontally at an upper side of said cooling heat exchanger; and

a mode switching member for selectively switching flow direction of the conditioned air blown into the passenger compartment, wherein:

said cooling heat exchanger includes a plurality of tubes through which refrigerant flows, and a plurality of corrugated fins disposed between adjacent said tubes; and said blower is disposed to be shifted from said cooling heat exchanger in a width direction of the vehicle.

An air conditioner according to claim 6, wherein said blower and said cooling heat exchanger are disposed in such a manner that air is approximately horizontally blown from said blower to a lower side of said cooling heat exchanger and is introduced into said cooling heat exchanger from below upwardly.

AND AND

8. An air conditioner according to claim 6, wherein:

air is blown from said blower in an air-blowing passage;

said cooling heat exchanger is disposed on an extending line of said air-blowing passage continually; and

said cooling heat exchanger is inclined downwardly toward a forward side of air blown in said air-blowing passage by said blower.

9. An air conditioner according to claim 8, wherein said tubes extend in a direction approximately equal to an air-blowing direction in said air-blowing passage.

10. An air conditioner according to claim 6, wherein said inclination angle of said cooling heat exchange is in a range of 10° - 30°.

An air conditioner according to claim 6, wherein:

said case has a drain port for draining condensed water from said cooling heat exchanger to an outside of said case; and

said drain port is provided at a most bottom portion of said case at a lower side of said cooling heat exchanger.

12. An air conditioner according to claim 6, wherein:

said case has a first opening for blowing air toward an upper side of the passenger compartment, a second opening for blowing air toward a lower side of the passenger compartment, and a third opening for blowing air toward a windshield of the vehicle; and

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said mode switching member is disposed at an upper side of said heating heat
exchanger to selectively open and close said-first opening, said second opening and said third
opening.

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